



# Electric Rock Drilling Rig Introduction Video

What is Epiroc's new battery-powered drill rig?

The trial is a milestone in the journey towards zero-emission drilling in surface mines and quarries around the world. Epiroc is taking a major step with the inaugural battery-powered drill rig for surface operations. The design of the rig is based on Epiroc's well-proven SmartROC T35 surface drill rig.

How do electric drill rigs work?

Electric generators powered by large diesel engines (the prime movers) generate electricity that move the heavy rig equipment such as the rotary table (or top drive), mud pumps and drawworks. Electric drill rigs are more expensive than mechanical rigs, but offer some nice advantages in return.

How does a conventional drilling rig work?

The drill stem lifted up to the ground from the well deposits much potential energy, and when the drill stem is lowered down to the well, the deposited potential energy is released. The conventional drilling rig just wastes this energy by braking and this energy cannot be recovered.

What is the world's first battery-electric drill rig?

Stockholm, Sweden: Epiroc, a leading productivity and sustainability partner for the mining and Infrastructure industries, has agreed with Swedish construction company Skanska to field test the world's first battery-electric drill rig for surface operations.

Are electric drill rigs better than mechanical drills?

Electric drill rigs are more expensive than mechanical rigs, but offer some nice advantages in return. Safer: Stepless speed regulation allows for accurate control of the circulating, hoisting, and rotating equipment. Computerized driller's cabin with touch screens for the display and control of drilling parameters.

What is a drilling rig electrical system?

The result is a system that allows the rig to switch power sources from diesel to utility power and back if necessary without any electrical connections that might endanger the crew. Drilling rigs have high demand and severe electrical operating conditions that require the most robust electrical systems.

Extracting resources deep underground seems impossible. But specialized machines make it happen, boosting safety and output. Understanding them is key. An underground drilling rig is ...

In this video, we showcase the Power Rock Drill, a high-performance tool designed for tough rock drilling tasks. Whether you're working on construction, mining, or ...

A mobile geological drilling rig is used to investigate a huge landslide that was triggered by the 2016



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Kaikoura Earthquake near Waiiau, New Zealand. James Chapman of CW Drill explains how the PQ ...

Horizontal Directional electric rock Drilling Machine, Mining Horizontal Directional Drilling rig introduction  
1. Electric rock drill is used for drilling burst mine hole in rock.

Drilling rigs can be designed with different drive modes: Electric drive (AC or DC), mechanical drive, or a combination of both (compound drive). In the following ...

Explore the precision and efficiency of the Sandvik DD422iE electric drill rig, a top-notch solution for development drill rigs in mining operations.

Epiroc used MINExpo exhibition in Las Vegas, from September 24-26, to showcase a demonstrator of the first ever down-the-hole SmartROC D65 battery-electric drill ...

These drills eliminate the need for explosives, which in turn eliminates the need for time-consuming ventilation and evacuation measures while promoting a ...

An introduction to how Reverse Circulation drill rigs work and why we use them. The first in a series of practical skills videos for graduate geologists in t...

What does drilling for crude oil and natural gas involve? Which kinds of technology are used? What's the difference between drilling on land or in water? How deep do the boreholes go?

First look at the Liebherr LB 16 unplugged, the "world's first" electric drilling rig, working on a large road foundation project in Austria.

Oil & Gas Drilling Rig Safety - 4 Essential Safety Tips Stay Safe on the Rig! Working on an oil & gas drilling rig can be dangerous if proper safety measures aren't followed.

Hard rock mining equipment manufacturer Sandvik is working with Swedish mining company Boliden AB to test and develop a new, battery ...

With its second battery-electric surface concept, Sandvik showcases the latest technology advancements to push the potential of more ...

Epiroc is taking a major step with the inaugural battery-powered drill rig for surface operations. The design of the rig is based on Epiroc's well ...

Understanding drilling rigs is essential for success in drilling operations. From basic components to maintenance, this knowledge helps you choose and operate the right rig for your needs.



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Excavator mounted rock drilling attachments are designed to be used in various job sites such as drilling and blasting, quarrying & Mining, rock bolting, rock, and concrete demolition ...

The reliability you need for the productivity you demand Designed with the reliability and productivity you need in mind, the 320XPC blasthole drill is a robust electric-platform-style drill ...

A demonstrator of the first ever tophammer battery-electric drill rig from Epiroc, SmartROC T35 E, is being presented at Bauma. The rig is an important step in the shift ...

This module provides foundational knowledge about the oil and gas drilling industry, covering essential concepts such as drilling techniques, rig types, ...

Product details The KHYD Series Explosion Proof Electric Rock Drill is a rugged, high-performance drilling rig designed for hazardous environments in mining and industrial ...

The rock drill is installed on the air-feed leg, drilling rig, or rock drilling jumbo to drill hole. This type of drill usually has chain shaped or stud gear shaped hard alloy drill bit.

Sandvik DL422iE is a fully automated, battery-powered top hammer longhole drill designed for underground mass mining in 4 x 4 m or larger production drifts.

30t Video Support Yahe Heavy Industry Electric Rock Drill Cfa Pile Driver, Find Details and Price about Piling Machine Rotary Drilling Machine from 30t Video Support Yahe Heavy Industry ...

Hard rock mining equipment manufacturer Sandvik is working with Swedish mining company Boliden AB to test and develop a new, battery electric surface drill rig concept at ...

The award-winning Autorock Drill Rig revolutionised narrow-vein vertical support hole drilling for in-stope support in South African platinum mines. This patented double-clamping rig was ...

A brief introduction to how diamond drill rigs drill and extract core for testing mineral deposits. Many thanks to Ravenswood Gold for allowing me the time t...

China leading provider of Rock Drilling Rig and Water Well Drilling Rig, Beijing Jincheng Mining Technology Co., Ltd. is Water Well Drilling Rig factory.

Surface and Exploration Drilling is a division within Epiroc. It develops, manufactures, and markets rock and exploration drilling equipment for various applications in civil and ...



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The ZJ21B drill rig is operated on battery power, which supports our customers on their journey to electrification and sustainability. It features a modular battery driveline with 83 kWh of robust ...

The SmartROC D65 BE demonstrator is based on the well-proven SmartROC D65 surface drill rig. In combination with invaluable experience gained from the development of ...

The AutoMine® Concept Underground Drill is a fully autonomous, twin-boom development drill rig capable of drilling without human interaction. The cabinless battery-electric drill can plan and ...

Description Horizontal Directional electric rock Drilling Machine, Mining Horizontal Directional Drilling rig introduction 1. Electric rock drill is used for drilling burst mine hole in rock. 2. It is ...

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